

# **Smart Rivers** 2007 Conference

Positioning Inland Navigation as a Powerful Link in the Global Supply Chain



September 16–19, 2007 Seelbach Hilton Louisville, Kentucky









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### **Organizing Committee:**

Diane Chevreux European Federation of Inland Ports John D. Clarkson U.S. Army Corps of Engineers James E. Clausner U.S. Army Corps of Engineers Larry L. Dalton U.S. Army Corps of Engineers Michael Fastenbauer, via donau Scott Hercik Appalachian Regional Commission Bruce Lambert Institute for Trade and Transportation Studies William McAnnally Mississippi State University James McCarville Port of Pittsburgh Commission Christian O'Neil, Osprey Line, LLC Barry Palmer, Waterways Council, Inc. Nicholas Pansic, MWH Global Joseph H. Pyne, Kirby Corporation Andrew Riester, Waterways Council, Inc. Dave Sanford American Association of Port Authorities Jeffrey L. Stamper U.S. Army Corps of Engineers Ian White, Ian White Associates Robert M. Willis U.S. Army Corps of Engineers Michael F. Winkler

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Engineers
Anne Sudar Cann, U.S. Army Corps of
Engineers / PIANC USA Secretary

U.S. Army Corps of Engineers

## Welcome From the PIANC USA Chairman

ON BEHALF of PIANC USA, it is an honor to welcome you to Louisville, Kentucky for the Smart Rivers 2007 Conference. PIANC USA is extremely pleased and proud to be organizing this year's conference. By attending the Smart Rivers 2007 Conference, you are joining the nation's and the world's top professionals in our inland waterways industry.



The 2007 conference is the third in a series of international joint conferences on synergies for an efficient waterway system in Europe and the US. Smart Rivers 21 is an international coalition intent on realizing "Strategic Maritime Asset Research and Transformation for 21<sup>ST</sup> Century River Systems" which was started in 2004 by a cooperation agreement between US and European partners, and was followed by the organization of a conference in October 2005 in Pittsburgh. The second conference was held in 2006 in Brussels, organized by the European Federation of Inland Ports (EFIP) in collaboration with TINA Vienna, via donau and the Port of Pittsburgh Commission. The previous conferences have highlighted the strategic similarities and differences of the US and European Union (EU) inland waterways systems. The 2007 conference is a continuation of this cooperation and has been organized as a joint effort to benchmark best practices for inland waterways on both sides of the Atlantic, and to help those waterways better integrate themselves into the global supply chain.

I encourage you to take full advantage of all the conference and Louisville have to offer. Visit the exhibit booths, attend the technical sessions and preconference workshop, interact with fellow professionals at the networking events, and explore Louisville on the technical tours. Please do not hesitate to ask questions of your local hosts from the US Army Corps of Engineers' Louisville District, the PIANC USA Commissioners and staff, or the Seelbach Hilton concierge. We appreciate the opportunity to improve the quality of your visit. Thank you for attending and I hope your Smart Rivers Conference experience is beneficial and exciting.

HON. John Paul Woodley, Jr. Chairman, PIANC USA

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## **PIANC USA**

PIANC USA was organized in 1902 with the U.S. Army Corps of Engineers serving as the Secretariat located at the Institute for Water Resources in Alexandria, VA. Its goal is to advance the sustainable development of shallow and deep-draft navigation issues including dredging and dredged material disposal, navigation and port infrastructure, recreational navigation and related environmental matters. PIANC USA is chaired by the Assistant Secretary of the Army (Civil Works); the President is the Director of Civil Works, U.S. Army Corps of Engineers. Membership information can be found at www.pianc.us or during the conference at the PIANC USA exhibit booth. For more information, contact Anne Sudar Cann, PIANC USA Secretary, at R.Anne.Sudar@usace.army.mil.

## **Special Events**

## **Opening Reception**

Sunday, September 16, 2007 • 6:00 PM - 8:00 PM

**Location: The Rathskeller Room** 

The opening reception is a terrific time to meet and mingle with colleagues. The reception will take place at the conference hotel in the Rathskeller, the only surviving Rookwood-Pottery room in the world. The stunning medieval architecture that marks the Rathskellar's interior depicts tile designs containing scenes of walled cities in the Rhenish region of Germany. One ticket to this event is included in a Full Registration. Additional tickets are available for purchase at the Conference Registration Desk. The cost per ticket is \$60.



### KIRBY Sponsored by Kirby Corporation

## **Monday Luncheon**

Monday, September 17, 2007 • 12:30 PM - 2:00 PM

Location: Medallion Ballroom C & D



### Sean T. Connaughton, **Maritime Administrator**

Join us for this notable lunch which includes a presentation from Sean T. Connaughton, Maritime Administrator, who will speak on "Promoting America's Marine Highway." Mr.

Connaughton was nominated by President George W. Bush to be the Maritime Administrator on June 28, 2006, and was confirmed by the Senate on August 3, 2006.

Mr. Connaughton graduated from the United States Merchant Marine Academy in 1983 with a Bachelor of Science degree, a Third Mates (Unlimited Tonnage) Merchant Marine license, and a commission in the United States Coast Guard. He served on active duty in the United States Coast Guard from 1983 to 1986. Mr. Connaughton joined the United States Naval Reserve as a selected reserve in 1987. Serving in both operational and staff billets, he retired in 2006. Mr. Connaughton graduated (with honors) from the U.S. Naval War College in 1998.

Mr. Connaughton worked for the Coast Guard as a civil servant in the Office of Marine Safety, Security, and Environmental Protection at Coast Guard Headquarters in Washington, D.C. while also attending Georgetown University, graduating with a Masters degree in 1988. In 1988, Mr. Connaughton began working at the American Petroleum Institute representing companies involved in the energy and marine transportation industries. He attended George Mason University School of Law, graduating with his law degree in 1992 and passing the Virginia State Bar later that year. Mr. Connaughton embarked on a career as a lawyer in private practice specializing in maritime and international law. He and a colleague appeared before the United States Supreme Court in 1999 to argue a case involving the constitutionality of laws imposed on the marine transportation industry. They won that case in a unanimous decision. He joined the law firm of

Troutman Sanders LLP at the end of 2000. He is a member of the Virginia Bar Association, the District of Columbia Bar Association, and the Maritime Law Association.

One ticket to this event is included in a Full Registration and a Monday Daily Registration. Additional tickets are available for purchase at the Conference Registration Desk. The cost per ticket is \$35.



Sponsored by American Commercial Barge Line, LLC

## **Tuesday Luncheon**

Tuesday, September 18, 2007 • 12:30 PM - 2:00 PM

Location: Medallion Ballroom C & D



Major General Don T. Riley, Director of Civil Works, U.S. Army Corps of Engineers Join us for this meaningful lunch which includes a presentation from Major General Don T. Riley, Director of Civil Works, U.S. Army Corps of Engineers, who will speak about "Inland

Waterways for the 21st Century." MG Riley became the Director of Civil Works, U.S. Army Corps of Engineers, Washington, DC, on July 1, 2004. As such, he manages the Army's \$5 billion annual Civil Works Program, the Nation's primary planner, designer, builder, and operator of flood control, navigation, environmental restoration, and multiplepurpose water resource projects. General Riley came to Corps of Engineers Headquarters following command of the Corps' Mississippi Valley Division (MVD) in Vicksburg, Mississippi, where he received a Presidential appointment as President of the Mississippi River Commission to oversee the work of six Engineer Districts that maintained the Mississippi River and its tributaries for navigation, flood control and other purposes from the headwaters in Minnesota to the Gulf of Mexico. Prior to commanding MVD, General Riley was the Deputy Chief of Staff (Engineer) of U.S. Army Europe, headquartered in Heidelberg, Germany. Throughout his military career, General Riley has served assignments in California, Louisiana, Texas, Washington, Missouri, and Virginia.

General Riley is a graduate of the United States Military Academy at West Point, N.Y., and was commissioned a second lieutenant in the Corps of Engineers in 1973. He earned a master's degree in civil engineering from the University of California, Berkeley, and is a Registered Professional Engineer in California. He is also a graduate of the U.S. Army Command and General Staff College and the United States Army War College and holds a Masters of Military Arts and Sciences from the School of Advanced Military Studies. General Riley is the President of PIANC USA, President of the Corps' Coastal Engineering Research Board, and Executive Director of the Inland Waterways User Board.

One ticket to this event is included in a Full Registration and a Tuesday Daily Registration. Additional tickets are available for purchase at the Conference Registration Desk. The cost per ticket is \$35.



## **Special Events**

## **Kentucky Derby Museum Gala Dinner**

Tuesday, September 18, 2007 • 6:30 PM - 10:30 PM

**Location: Kentucky Derby Museum** 

and Churchill Downs

Bus loading: 6:00pm in hotel lobby, last bus departs at 6:35pm

Join us on Tuesday evening for the conference gala event at the world famous Churchill Downs and Kentucky Derby Museum. Guided tours will take you through historical Churchill Downs and you can visit the resident Thoroughbred and his companion, a miniature horse, in the



back yard paddock. As you sit down to dine, you will feel the excitement of the crowds and hear the thunder of hoofs as you view a presentation of Derby Day in "The Greatest Race," a high-definition film projected on a 360-degree screen. Business casual or

business attire is acceptable. A ticket to the Gala Dinner is included in each Full Registration. Additional tickets are available for purchase at the Conference Registration Desk at a cost of \$75 per ticket.

## **Tours**

## Historic Steamboat Tour on the Ohio River - Belle of Louisville

Sunday, September 16, 2007 • 1:00 PM - 4:00 PM Location: 4th Street Wharf - Downtown Louisville, KY

Shuttle loading: 1:00pm in hotel lobby; load onto boat at 1:30pm.

**COST PER TICKET \$20** 



Cruising down the river on a Sunday afternoon, there's just nothing like it—especially on an historic paddlewheel steamboat! Join us for a leisurely 2-hour cruise on the Ohio River aboard

the Belle of Louisville. You will enjoy spectacular views of the Ohio River and Louisville Skyline while listening to historic narration. You are welcome to visit the engine room and talk to the crew. The boat contains a concession stand where snacks and drinks are available for purchase. Tickets for this event are not included in the conference registration, but can be purchased at the Conference Registration Desk at a cost of \$20 per ticket.

## Technical Tour of McAlpine Lock, Jeffboat Shipyard and the Falls of the Ohio

Wednesday, September 19, 2007 • 9:00 PM - 5:00 PM

Bus loading: 8:45am in hotel lobby; buses depart 9:00am. **COST PER TICKET \$30** 

Join us on Wednesday for an exciting day of technical tours. Attendees will visit the McAlpine Locks, Jeffboat Shipyard, and the Falls of the Ohio. Comfortable clothing and walking shoes are recommended. \*\*If you plan to participate in the

walking portion of the McAlpine tour, sandals or open toed shoes as well as shorts, capri pants and skirts or dresses are not acceptable attire. This is necessary to comply with the project safety rules.\*\* Tickets for this event are not included in the conference registration, but can be purchased at the Conference Registration Desk at a cost of \$30 per ticket. Lunch will be provided.



McAlpine Locks and Dam: The Army Corps of Louisville District will provide a tour of the McAlpine Locks and Dam including the ongoing McAlpine Lock Replacement Project. Innovations

associated with this project include roller compacted concrete walls, wrap around filling and emptying system with in-chamber culverts, a shortened guide wall and reduced cofferdam length.



**Jeffboat Shipyard:** Tour of the Jeffboat property, America's largest inland shipbuilder and repair facility. The shipyard spans 68 acres of land and 5,600 feet of frontage on the Ohio River in Jeffersonville,

Indiana, where they manufacture hopper barges, tank barges, oceangoing tank barges and towboats.



**Falls of the Ohio:** Located on the banks of the Ohio River, the Falls of the Ohio State Park contains 386million-year-old fossil beds which are among the largest naturally exposed Devonian fossil beds in the world. Tour participants will visit

the spectacular interpretive center and exposed fossil beds. The month of September provides the best accessibility to the 220 acres of fossil beds, as the river is at its lowest level during this period.

## **Technical Program**

Location: Medallion Ballroom A & B

### Monday, September 17

8:00 AM-6:00 PM ......Registration & Exhibits (foyer) 8:00 AM-9:00 AM .....Continental Breakfast (foyer)

9:00 AM-10:30 AM .....Technical Session 1:

#### **OPENING SESSION**

Moderator: Gary LaGrange, Port of New Orleans

- Welcome to Louisville, Brigadier General Bruce A. Berwick, US Army Corps of Engineers
- Lessons from Smart Rivers 2006, Arno Hart, RNO Group
- Where are "Smartrivers" going? European Perspective, Michael Fastenbauer, via donau

10:30 AM-11:00 AM .....Break (foyer)

11:00 AM-12:30 PM .....Technical Session 2:

## CHANGING MARKETS-WHAT DRIVES CARGO ON THE SYSTEM?

Moderator: Doris Bautch, U.S. Maritime Administration

- European IWT Success Stories-Past and Future Joerg Rusche, European Barge Union
- Future of Inland Navigation
  Mark Carr, MEMCO Barge Line, Inc.
- Navigation Economic Technologies, Wes Wilson, Ph.D., University of Oregon
- Developing Container on Barge Business in the U.S., Christian O'Neil, Osprey Lines

12:30 PM-2:00 PM.....Luncheon: (Medallion Ballroom C & D)

**Promoting America's Marine Highway,** Sean T.
Connaughton, Maritime Administrator, U.S. Maritime Administration

2:00 PM-3:30 PM.....Technical Session 3:

## PROMOTING A SUSTAINABLE INLAND NAVIGATION SYSTEM - SYSTEMS PERSPECTIVES

Moderator: Anne Sudar Cann, U.S. Army Corps of Engineers

- The Environmental Perspective of the Rhine, Margriet Schoor, Rijkswaterstaat
- ullet Status of Inland Water Assessment in the U.S., William T. Harder, US Army Corps of Engineers
- Container Development in Constanta/Danube Waterway, Gerhard Gussmagg, via donau
- $\bullet$  Barge Operations on the Columbia-Snake River, Ken O'Hollaren, Port of Longview

3:30 PM-4:00 PM: .....Break (foyer)

4:00 PM-5:30 PM: .....Technical Session 4:

### POLICY COMPARISONS & PROJECT DETERMINATIONS-HOW ARE LOCAL PROJECTS DONE?

Moderator: Dan Mecklenborg, Ingram Barge Company

- Ohio Mainstem Study, Mark Hammond, US Army Corps of Engineers
- Externalities and Project Approval, Larry Bray, University of Tennessee Transportation Center
- Finnish Waterway System, Olli Holm, The Finnish Maritime Administration

• Waterways and Economic Development Organizations, Scott Hercik, Appalachian Regional Commission

### Tuesday, September 18

8:00 AM-5:00 PM: ......Registration & Exhibits (foyer) 8:00 AM-9:00 AM: .....Continental Breakfast (foyer)

9:00 AM-10:30 AM: .....Technical Session 5:

#### RELIABILITY AND SYSTEM USE

Moderator: Helen Brohl, U.S. Committee on the Maritime Transportation System

- e-Maritime and River Information Services, Lea Kuiters, Rijkswaterstaat, Transport Research Center
- USACE Approach to Information Technology, James E. Walker, US Army Corps of Engineers
- River Information Services in Europe, Juergen Troegl, via donau
- Kiel Canal System, Robert Pfister, Frequentis Defense Inc.

10:30 AM-11:00 AM: .....Break (foyer)

11:00 AM-12:30 PM: .....Technical Session 6:

### PIANC ACTIVITIES - PORT MANAGEMENT IN EUROPE

 ${\it Moderator: James R. McCarville, Port of Pittsburgh} \\ {\it Commission}$ 

- Organization and Management of River Ports, Yves Morin, Port of Paris
- Port of Paris Profile, Chloe Perreau, Port of Paris
- Inland Navigation Commission Overview, Ian White, Ian White Associates
- Performance Indicators for Inland Waterways Transport, Reinhard Pfliegl, Ph.D., AustriaTech

12:30 PM-2:00 PM:....Luncheon: (Medallion Ballroom C & D)

Inland Waterways for the 21st Century: Developing A Common Vision for Uncommon Success, Major General Don T. Riley, Director of Civil Works, US Army Corps of Engineers

2:00 PM-3:30 PM:....Technical Session 7:

### FUTURE CHALLENGES TO INDUSTRY

 ${\it Moderator: Larry~"Butch" Brown, Mississippi~Department~of~} \\ {\it Transportation}$ 

- Software Tools for Lock Planning, Pascal Verlinden, TINC Associates
- Transforming a Barge Company into a Transportation Company, Michael Ryan, American Commercial Lines
- Future Research on Inland Navigation—A European Perspective, Michael Fastenbauer, via donau
- $\bullet$  The Role of Deepsea Ports to Inland Ports, Don McCrory, Port of Memphis

3:30 PM-4:00 PM: .....Break (foyer)

4:00 PM-5:30 PM: .....Technical Session 8:

### TOWN HALL SESSION

Moderator: Bruce Lambert, Institute for Trade and Transportation Studies

 Report from Session Moderators: Next Steps Going Forward

## **General Information**

## **Professional Development Hours (PDHs)**

You may earn PDHs, which are nationally recognized units of record, by attending conference technical sessions. The PDH form is included in your conference registration packet. Please note that there are differences from state to state in continuing education requirements for professional licensure. Each state registration board has the final authority to approve course, credits, PDHs, and other methods of earning credits in that state. PIANC USA strongly recommends that individuals regularly check with their state registration boards for specific continuing education requirements.

## **Explore Louisville**

Visitors to downtown Louisville can enjoy spectacular attractions within just blocks of one another. Try one of the new eateries at Fourth Street Live!, a \$70 million entertainment district located one block from the conference hotel. Check out the Louisville Slugger Museum & Factory, the world famous Muhammad Ali

Center, Louisville Zoo, and the scenic River Walk, great for walking and jogging along the Ohio River. The hotel Concierge at the Seelbach Hilton, located near the hotel registration desk in the lobby, can assist you with information about local attractions and hotel amenities.





### **Conference Hotel**

### The Seelbach Hilton Louisville

500 Fourth Street, Louisville, KY 40202-2518

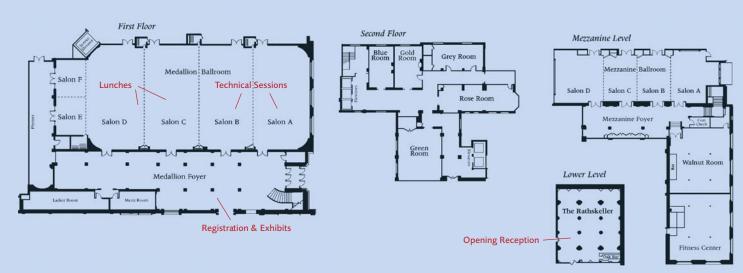
Tel: (502) 585-3200 Guest fax: (502) 585-9239



## **Hotel/Airport Shuttle**

There is complimentary airport transportation available to & from the conference hotel. Hotel shuttle telephone: (502) 585-3200 / Hours of Operation: 6a.m. to 12 a.m.

#### **Hotel Floor Plan**



## COMMITTEE MEETINGS

## **USACE** Regional Navigation Design Team (RNDT)

Monday, September 17, 2007 1:00 PM - 5:30 PM Tuesday, September 18, 2007 9:00 AM - 5:30 PM

### **Location: Walnut Room**

The RNDT was formed in January 1994 with the purpose of assuring that innovative design and construction technologies, applicable to the modernization of the nation's navigation system, are adequately and efficiently evaluated in the interest of achieving modernization at the lowest practical cost. Contact: John Clarkson, USACE.

## PIANC Commissioners Meeting (invitation only)

Monday, September 17, 2007 6:00 PM • 8:00 PM Wednesday, September 19, 2007 8:30 AM - 12:00 PM

#### **Location: Blue Room**

The Commission, composed of eleven members, is the central governing body of PIANC USA. The Chairman is the Assistant Secretary of the Army (Civil Works); the President is the Director of Civil Works, U.S. Army Corps of Engineers. Contact: Anne Sudar Cann, Secretary.

## USACE Inland Navigation Community of Practice (CoP)

Wednesday, September 19, 2007 1:00 PM - 5:30 PM Thursday, September 20, 2007 8:30 AM - 5:00 PM

#### Location: Medallion Ballroom C

The Inland Nav CoP is made up of individuals who practice and share an interest in virtually all aspects of navigation. The primary functions of the USACE Inland Nav CoP are to develop and maintain policy and doctrine, a capable workforce, national and interagency relations and coalitions by accelerating organizational communication and matching resources and resource requirements. Contact: Mark Hammond, USACE.

## **Pre-Conference Workshop**

## The Future of the US Inland Navigation System-Meeting the Challenges

Sunday, September 16, 2007 • 1:00 PM - 5:00 PM

**Location: Medallion Ballroom A** 

**COST PER TICKET \$150** 

#### **COURSE INSTRUCTORS:**

Dr. William A. McAnally, Mississippi State University
David V. Grier, U.S. Army Corps of Engineers
Nicholas Pansic, MWH & Chair, ASCE/COPRI Waterways Committee
Charles Spitzack, U.S. Army Corps of Engineers
Dr. Dennis Wichelns, Hanover University, Indiana



Join us for a stimulating interactive workshop, to learn, share ideas, and explore the unique challenges facing the 12,000 miles of US waterways. You will learn the ten guiding principles for sound design of navigation projects; examine key performance metrics that measure multimodal systems and their impacts on

waterway investment and management; explore case studies of North American and European approaches to balancing functional, environmental, and financial interests to create sustainable waterways; and share ideas on how professional and personal ethics guide organizational behavior in waterway systems.

You will earn 4 Professional Development Hours (PDHs) for this course (including 1 hour ethics). Tickets for this event are not included in the conference registration, but can be purchased at the Conference Registration Desk at a cost of \$150 per ticket.

### **PIANC InCom Working Group 30**

Thursday, September 20, 2007 8:30 AM - 4:30 PM Friday, September 21, 2007 8:30 AM - 2:30 PM

### Location: Mezzanine Salon D

PIANC Inland Navigation Working Group 30: Inventory of Inspection and Repair Techniques of Navigation Structures (steel, concrete, masonry and timber) Both Underwater and In-the-dry.

Chair & US Rep.: Robert Willis, USACE; US Young Professional Rep.: Chad A. Linna, USACE.

### **PIANC InCom Working Group 31**

Thursday, September 20, 2007 9:00 AM - 5:00 PM

### Location: Mezzanine Salon A

PIANC Inland Navigation Working Group 31: Organization and Management of River Ports. Chair: Yves Morin, Port of Paris; US **Reps.:** Deidre McGowan, Inland Rivers Ports & Terminals, Inc. and Jim McCarville, Port of Pittsburgh Commission.

## **PIANC InCom Working Group 32**

Thursday, September 20, 2007 9:00 AM

### Location: Otto's Café, Seelbach Hilton

PIANC Inland Navigation Working Group 32: Performance Indicators for Inland Waterways Transport. Chair: Dr. Reinhard Pfiegl, AustriaTech; US Rep.: William Harder, USACE.

### **PIANC InCom**

Friday, September 21, 2007 9:00 AM - 5:00 PM

### Location: Mezzanine Salon A

PIANC Inland Navigation Commission. **Chair:** Ian White, Ian White Associates; **US Reps.:** John D. Clarkson, USACE and William Ronald Coles, Hanson Professional Services.

## Schedule at a Glance

## Sunday, September 16

11:00 AM-7:00 PM	Registration
1:00 PM-5:00 PM	Pre-Conference Technical
	Workshop
1:00 PM-4:00 PM	Riverboat Tour
6:00 PM-8:00 PM	Opening
	Reception &
	Official Start of
	Conference

### Monday, September 17

J. 1	
8:00 AM-6:00 PM	Registration & Exhibits
8:00 AM-9:00 AM	Continental Breakfast
9:00 AM-10:30 AM	Technical Session 1
10:30 AM-11:00 AM	Break
11:00 AM-12:30 PM	Technical Session 2
12:30 PM-2:00 PM	Luncheon
2:00 PM-3:30 PM	Technical Session 3
3:30 PM-4:00 PM	Break
4:00 PM-5:30 PM	Technical Session 4

### Tuesday, September 18

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8:00 AM-5:00 PM	Registration & Exhibits
8:00 AM-9:00 AM	Continental Breakfast
9:00 AM-10:30 AM	Technical Session 5
10:30 AM-11:00 AM	Break
11:00 AM-12:30 PM	Technical Session 6
12:30 PM-2:00 PM	Luncheon
2:00 PM-3:30 PM	Technical Session 7
3:30 PM-4:00 PM	Break
4:00 PM-5:30 PM	Technical Session 8
6:30 PM-10:30 PM	Gala Dinner at the Kentucky Derby Museum and Churchill Downs

### Wednesday, September 19

9:00 AM – 5:00 PM Technical Tour:

McAlpine Locks & Dam, Falls of the Ohio, and Jeffboat Shipyard

### Thursday-Friday, September 20-21

9:00 AM – 5:00 PM Committee Meetings

## **Sponsors and Exhibitors**

The Smart Rivers 2007 Organizing Committee would like to thank all of our sponsoring, exhibiting, and cooperating organizations. Without the generous support of these industry leaders, we would not be able to provide our industry with opportunities such as these. All donations, sponsorships, and cooperating commitments are greatly appreciated.

### **Platinum Level Sponsors**

Kirby Corporation

### **Gold Level Sponsors**

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### **Silver Level Sponsors**

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### **Bronze Level Sponsors**

INCA Engineers, Inc. Jeppesen Marine MWH











Port of Pittsburgh Commission







### **Exhibitors**

- American Association of Port Authorities
- Frequentis Defense, Inc.
- Inland River Vessel Movement Center, United States Coast Guard
- Jeppesen Marine
- PIANC USA
- Transas USA
- US Army Corps of Engineers, Engineering Research & Development Center
- US Army Corps of Engineers, Huntington District
- US Army Corps of Engineers, Institute for Water Resources

### **Cooperating Organizations**

- American Association of Port Authorities
- Appalachian Regional Commission
- AustriaTech (Federal Agency for Technological Measures, Ltd)
- Coasts, Oceans, Ports, and Rivers Institute of ASCE
- European Federation of Inland Ports
- Inland Rivers, Ports, and Terminals
- Institute for Trade and Transportation Studies
- National Maritime Enhancement Institute, Rahall Transportation Institute, Marshall University
- National Waterways Conference, Inc.
- Port of Pittsburgh Commission
- Radio Technical Commission for Maritime Services
- TINA Vienna
- Transportation Research Board / Marine Board
- US Army Corps of Engineers, Louisville District
- via donau Österreichische Wasserstraßen-Gesellschaft mbH
- Waterways Council, Inc.